

ABSTRACT OF THE DISCLOSURE

The present invention provides a spin-valve type thin film magnetic element that is able to certainly align the magnetization direction of the free magnetic layer in one direction by improving the exchange coupling magnetic field generated between the bias layers and ferromagnetic layer, and is able to reduce the thickness of the bias layer to be smaller than the thickness of the bias layer of the conventional spin-valve type thin film magnetic element for obtaining the same magnitude of the exchange coupling magnetic layer as that in the conventional spin-valve type thin film magnetic element.

RECORDED - 7/26/2000